

February 14–18, 2022 – Tux (Austria) and worldwide

Organizers: Christian Fleischhack and Jerzy Lewandowski

Effective February 14, 2022

	Monday	Tuesday	Wednesday	Thursday	Friday
13:30	<b>Maciej Dunajski</b> Quasi-local mass, Kerr horizon, and causality	<b>Tomasz Pawłowski</b> Semiclassical states, high order quantum corrections and cosmology	<b>Marko Vojinovic</b> Coupling matter to spinfoam models using higher gauge theory	<b>Jakub Mielczarek</b> Towards the loop quantum gravity with compact phase space	<b>Gaoping Long</b> Coherent states and simplicity constraint in all dimensional loop quantum gravity
14:10	<b>Shupeng Song</b> Entropy of black holes with arbitrary shapes in loop quantum gravity	<b>Maciej Kowalczyk</b> Consequences of regularization ambiguities in Loop Quantum Cosmology	<b>Wolfgang Wieland</b> Flatness problem and selfdual variables	<b>Cong Zhang</b> Fermion coupling to loop quantum gravity: canonical formulation	<b>Deepak Vaid</b> Coherent States and Particle Scattering in Loop Quantum Gravity
14:50	Break				
15:10	<b>Eugenia Colafranceschi</b> Towards an information-theoretic characterizations of horizons in quantum gravity	<b>Guillermo A. Mena Marugán</b> An analytical investigation of pre-inflationary effects in the primordial power spectrum.	<b>Tijana Radenković</b> Topological invariant of 4-manifolds based on a 3-group	<b>Sepideh Bakhoda</b> The $U(1)^3$ model of Euclidean Quantum Gravity	<b>Grzegorz Czelusta</b> Quantum simulations of loop quantum gravity
15:50	<b>Asier Alonso-Bardaji</b> A quantum black hole effective model	<b>Rita Neves</b> States of Low Energy in Loop Quantum Cosmology	<b>Daniele Oriti</b> Cosmology from quantum gravity: basic ideas, relational observables and cosmological perturbations	<b>Ilkka Mäkinen</b> Scalar curvature operator for LQG on a cubical graph	<b>Andrzej Dragan</b> Quantum time dilation
16:30	<b>Alejandro García-Quismondo</b> Investigating an alternative to the Hamiltonian calculation of the Ashtekar-Olmedo-Singh BH model	<b>Lucía Menéndez-Pidal</b> Unitarity and clock dependence in quantum cosmology	<b>Alexander Jercher</b> Emergent Cosmology from Quantum Gravity in the Lorentzian Barrett-Crane Tensorial GFT Model	<b>Klaus Liegener</b> Semi-classical limit of Loop Quantum Gravity and the Quantum Speed Limit	<b>Anupam Mazumdar</b> Testing quantum aspects of gravity in a laboratory via entanglement
17:10	Break				
17:30	<b>Saeed Rastgoo</b> Polymer gravitational waves and its consequences: a model	<b>Igor Kanatchikov</b> Towards quantum teleparallel equivalent of general relativity	<b>Johannes Thürigen</b> Phase Transitions and Critical Dimension in GFT	<b>Anne-Cather. de la Hamette</b> Perspective-neutral approach to quantum frame covariance for general symmetry groups	<b>Charlie Beil</b> Aspects of the standard model from a new spacetime geometry
18:10	<b>Maciej Kolanowski</b> Gravitational radiation at (almost) isolated horizons		<b>Xiankai Pang</b> Phantom-like dark energy from quantum gravity	<b>Viktoria Kabel</b> Falling through masses in superposition: Quantum reference frames for indefinite metrics	<b>Jan Novak</b> Graviton as a phonon and dark energy problem
18:50	<b>Tomasz Trzesniewski</b> On the spectral dimensionality of quantum space(time)s		<b>Laurent Freidel</b> Local Holography: a new paradigm for quantum gravity		<b>Celeste Hogan</b> Quantum isotropy and the reduction of dynamics in Bianchi I